



THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant : Leslie L. Deck

Art Unit : Unknown

Serial No. : 09/919,511

Examiner : Unknown

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Title : FOURIER TRANSFORM PHASE SHIFTING INTERFEROMETRY

Commissioner for Patents

Washington, D.C. 20231

PRELIMINARY AMENDMENT

Prior to examination, please amend the application as follows:

In the specification:

Replace Eq. 18 on page 19 with the following equation:

G1

$$-- DFT(f_c) = \sum_{j=0}^{N-1} I_j W_j \exp(i\Delta\varphi_{Tj}) --$$

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Replace Eq. 20 on page 19 with the following equation:

G2

$$-- \Delta\varphi_{Tj} = \Delta\varphi_{Mj} \frac{D_T}{D_M} --$$

In the claims:

Amend claim 33 as follows:

33. (Amended) An interferometry method for characterizing a test object, the method comprising:

forming an optical interference image by combining different portions of an optical wave front reflected from multiple surfaces of the test object and at least one reference surface, the

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